Voltage Designations

Nominal Voltage- The characteristic operating voltage of a wire or cable that is referenced to define its electrical rating.

The nominal voltage in European applications is expressed by the combination of two values expressed by the designations Uo/U, where:

Uo: The voltage between any insulated conductor and shield or ground.
U: The voltage between any two conductors of a multi-conductor cable.

Nominal Voltage Example:

P/N 0026157- The nominal voltage is expressed as 300/500 V.

Uo: 300 V, voltage between any insulated conductor and shield ground.
U: 500 V, voltage between any two conductors of a multi-conductor cable.

Voltages are expressed in terms of Alternating Current (AC). A conservative estimate of the amount of Direct Current (DC) voltage is 1.5 times the AC Value.

Direct Current Example:

P/N 0026157- Based on the voltage listed above, the estimated DC voltage would be as follows:

Uo: 300 Vac x 1.5 = 450 Vdc
U: 500 Vac x 1.5 = 750 Vdc